

ABSTRACT

[0028] A method of testing the hearing of a user utilizing a computer system that includes a computer and a speaker. The computer can output an electrical signal to the speaker and the speaker can convert the electrical signal into a stimulus. The method includes: downloading a computer program from a server to the computer; executing the computer program on the computer; generating a digital stimulus, the stimulus having a first sub-stimulus and a second sub-stimulus, the first sub-stimulus being within the audible range of humans, the second sub-stimulus being outside of the audible range of humans and/or outside of the range of the hearing test; and receiving an input from the user that indicates that the user heard the stimulus. The purpose of the sub-stimuli is to dither the stimuli so as to minimize distortions due to quantization of the stimuli and thus improve hearing test accuracy.